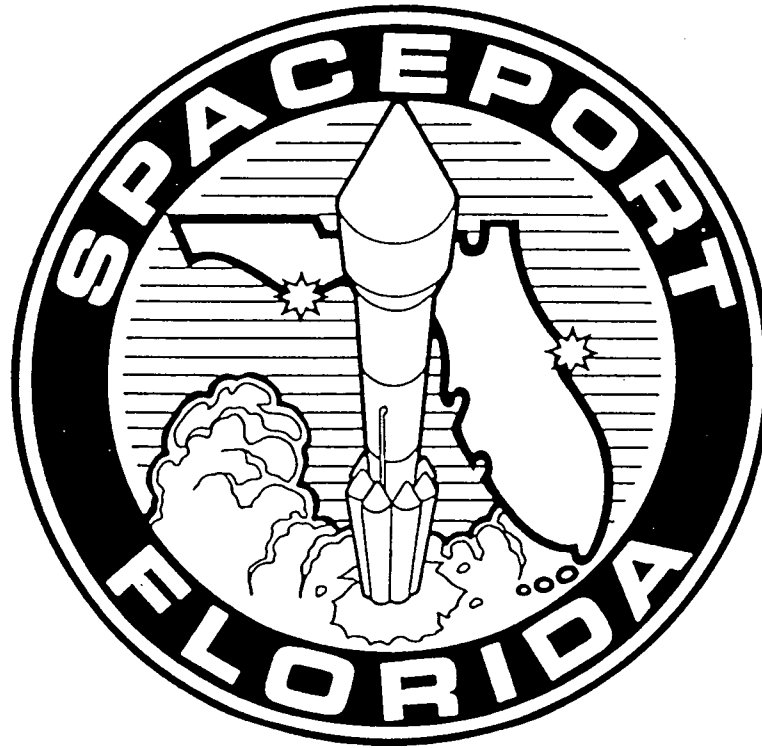


SPACEPORT FLORIDA AUTHORITY



55-14
CORP SOURCE =
SU 951630 72151
N92-22600 R-15

SPACEPORT FLORIDA ORGANIZATION

- ESTABLISHED BY THE STATE LEGISLATURE IN 1989.
- CREATED AS A PUBLIC CORPORATION AND SUBDIVISION OF STATE GOVERNMENT.
- EXECUTIVE DIRECTOR REPORTS TO NINE-MEMBER BOARD OF SUPERVISORS.
- SMALL, MULTI-DISCIPLINARY STAFF (9 PERSONS).
- OFFICES LOCATED IN VICINITY OF KENNEDY SPACE CENTER AND CAPE CANAVERAL AIR FORCE STATION.

SPACEPORT FLORIDA

OBJECTIVE

- **TO BRING TO FLORIDA ADDITIONAL COMPONENTS OF THE NATION'S COMMERCIAL, CIVIL, AND MILITARY SPACE PROGRAMS**
- * **SUPPORTING AND AUGMENTING THE NATIONAL SPACE CAPABILITY.**
- * **RETAINING AND STRENGTHENING THE U.S. LAUNCH INDUSTRY.**
- * **DEVELOPING SPACE-RELATED RESEARCH AND MANUFACTURING CAPABILITIES.**
- * **INCREASING UNIVERSITY PARTICIPATION IN SPACE-RELATED RESEARCH.**

SPACEPORT FLORIDA

CURRENT INITIATIVES

- COMMERCIAL LAUNCH INFRASTRUCTURE AND SYSTEMS MODERNIZATION PROGRAM
 - * ADVANCED LAUNCH CONTROL CENTER
- CAPE SAN BLAS LAUNCH PROGRAM
 - * UNIVERSITY CURRICULUM DEVELOPMENT
- SPACEPORT FLORIDA LABORATORIES
- NATIONAL LAUNCH DEVELOPMENT CENTER
- BOND FINANCE PROJECTS
- TELECOMMUNICATIONS NASA CCDS

SPACEPORT FLORIDA

SPACE RESEARCH EXPERIMENT PROGRAM

OBJECTIVES

- 1. PROVIDE UNIVERSITY RESEARCHERS WITH RAPID ACCESS TO SPACE.**
- 2. PROMOTE RESEARCH ON ENVIRONMENTAL MONITORING LEADING TO A BETTER UNDERSTANDING OF GLOBAL CHANGE.**
- 3. ASSIST IN THE ESTABLISHMENT OF FLORIDA AS A LEADER IN SPACE-RELATED RESEARCH WHICH WILL LEAD TO A LARGER SHARE OF COMMERCIAL SPACE ENTERPRISE.**
- 4. STIMULATE STUDENT INTEREST IN SPACE TO HELP ESTABLISH A WORK FORCE ATTUNED TO 21ST CENTURY TECHNOLOGY.**

SPACEPORT FLORIDA

SPACE RESEARCH EXPERIMENT PROGRAM

PROGRAM ASSETS

- CAPE SAN BLAS FACILITY
LAUNCH CONTROL VAN AND LAUNCHER
VIPER III/SUPER LOKI ROCKETS
GROUND TRACKING AND TELEMETRY (USAF)
PAYLOAD RECOVERY CAPABILITY
- SPACEPORT FLORIDA LABORATORIES
PAYLOAD FLIGHT QUALIFICATION TEST FACILITY
PAYLOAD DEVELOPMENT FACILITY
- INCUBATOR FACILITY
- SPACEHAB LOCKERS RESERVATION

SPACEPORT FLORIDA

CAPE SAN BLAS LAUNCH PROGRAM

- SUB-ORBITAL LAUNCH FACILITY IN GULF COUNTY FOR UNIVERSITY-DEVELOPED AND SMALL COMMERCIAL PAYLOADS.
- FACILITY ACTIVATION (INCLUDING LAUNCH VEHICLES AND SUPPORT EQUIPMENT) UNDER CONTRACT TO ORBITAL SCIENCES CORPORATION.
- FIRST SAN BLAS LAUNCH SCHEDULED IN DEC. 1991
*F.S.U. METEOROLOGICAL PAYLOAD
- ANTICIPATED SHORT TERM LAUNCH RATE OF SIX PER YEAR.
- SOLAR ECLIPSE LAUNCH ON JULY 11 FOR F.I.T. AT AT SANTIAGO IXCUINTLA, MEXICO

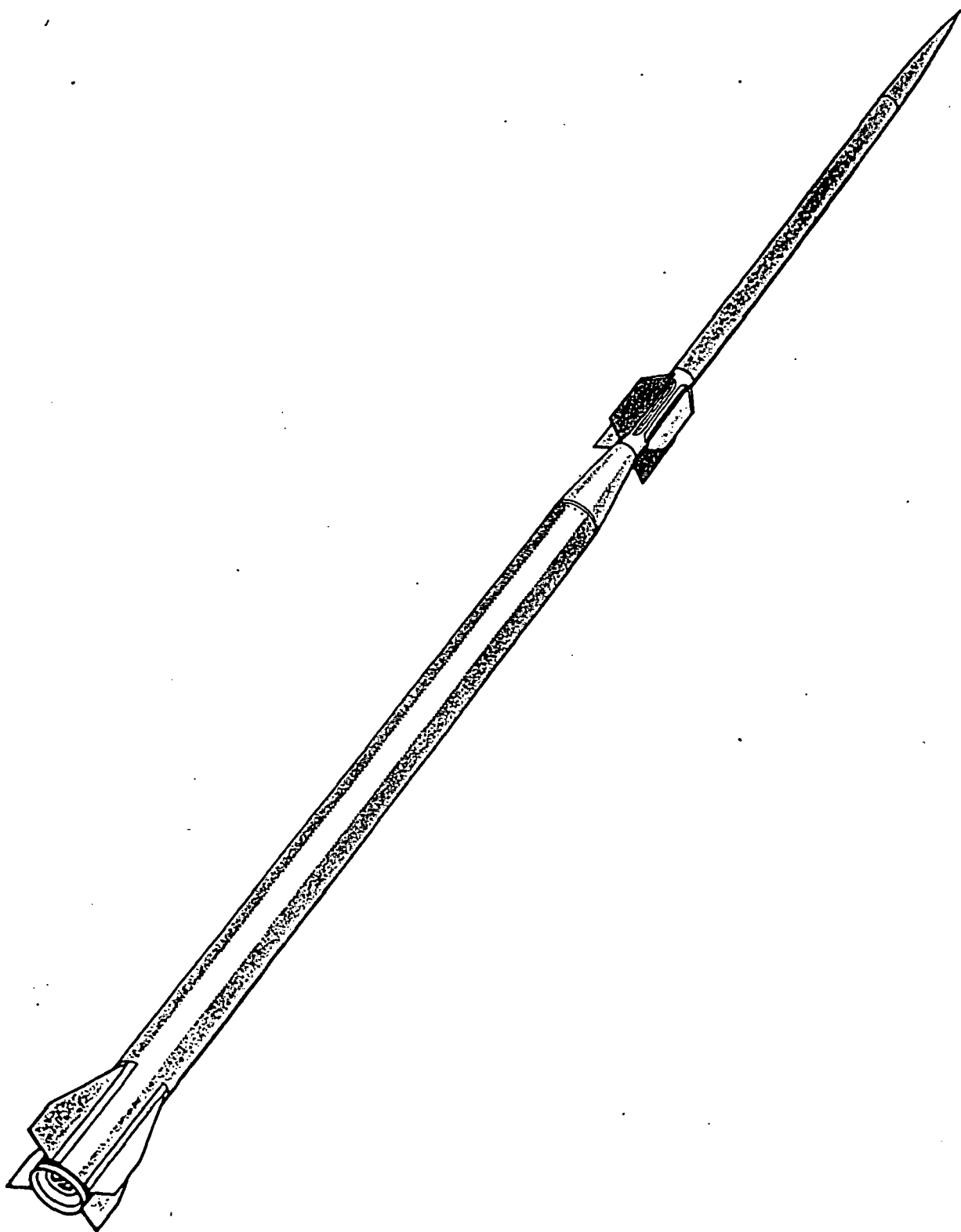


FIGURE 5.1 SUPER LOKI INSTRUMENT DART VEHICLE

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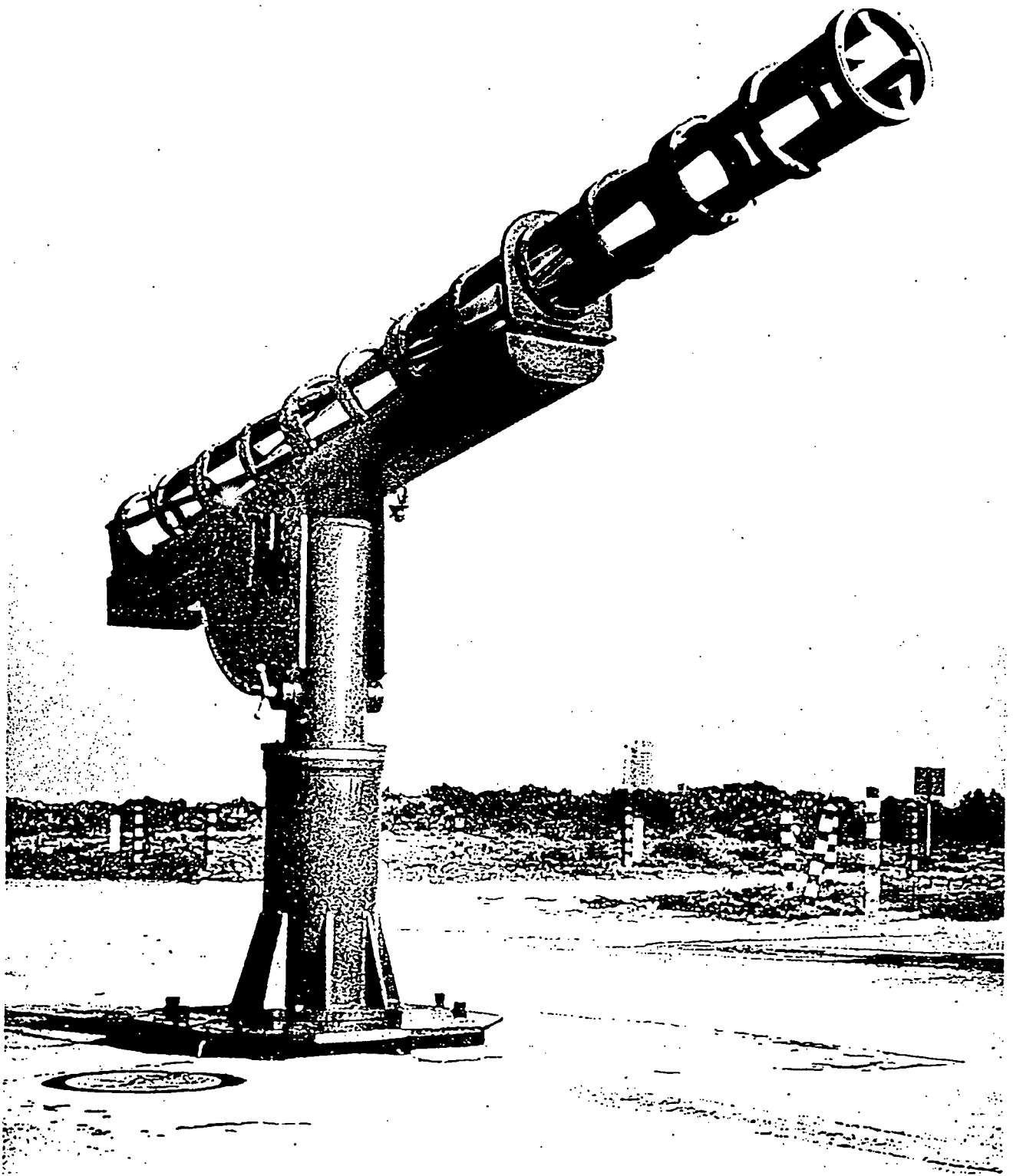


FIGURE 6.2 SUPER LOKI LAUNCHER

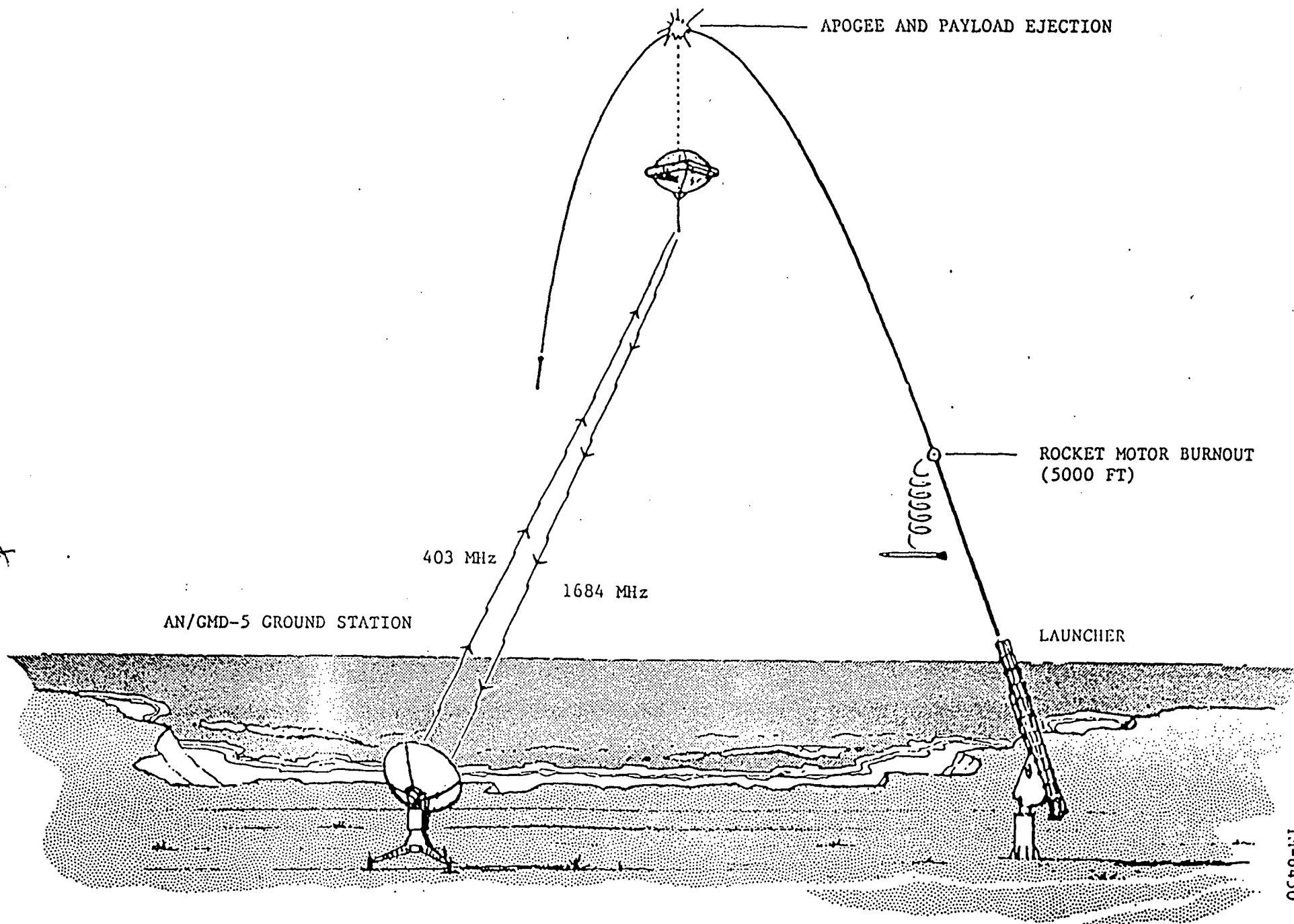


Figure 1-2. Typical Meteorological Sounding Rocket System

SPACEPORT FLORIDA

SPACE RESEARCH EXPERIMENT PROGRAM

LAUNCH VEHICLE CHARACTERISTICS

SOUNDING ROCKET PERFORMANCE CHARACTERISTICS

[As provided by the manufacturer, Space Data Division (SDD) of the Orbital Sciences Corporation (OSC).

Dart Configuration

TYPE	DIA.	WT.	Payload LN.	Payload DIA.	Payload WT.
A	2 1/8	16.5	31 in.	2 in.	8-11 lb.
B	1 7/16	10.0	25 in.	1 5/16	5-6 lb.
C	1 5/8	13.5	22 in.	1 1/2	6-8 lb.

Super Loki

Booster
Burnout

Dart
Apogee

Viper III A

Booster
Burnout

Dart
Apogee

TYPE	Ft.	Mach	Kft	Sec	Ft.	Mach	Kft	Sec
A	4300	4.82	200	110	5750	5.27	260	125
B	4800	5.38	240	120	6300	5.81	300	135
C	4550	5.10	310	145	5950	5.39	340	150

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SPACE RESEARCH EXPERIMENT PROGRAM

LAUNCH MANIFEST

#	LAUNCH DATE	LOCATION	UNIVERSITY	PAYLOAD	MISSION	COMMENTARY
1	10 JULY 91	Santiago Mexico	-	SONDE	Systems Test of Ground Equipment	Successful Launch Demo
2	11 JULY 91	Santiago Mexico	F.I.T.	SECC-1	Solar Eclipse Extended Corona Determine Composition of Solar Dust	No Data Received After Launch
3	NOV-DEC 91	Cape San Blas Florida	F.S.U.	Weather Sonde	1. Determine Wind and Temp Data at Extreme Altitudes 2. Systems Test of San Blas Facility	EA Submitted To Eglin AFB, Awaiting Launch Date Assignment
4	JAN 92	Cape San Blas Florida	F.S.U.	Trace Gas Ozone Detector	Vertical Atmospheric Profiles Global Warming Data	Can Be Correlated With Satellite Data
5	APRIL 92	Cape San Blas Florida	F.S.U.	Trace Gas Ozone Detector	Vertical Atmospheric Profiles Global Warming Data	Can Be Correlated With Satellite Data
6	JULY 92	Cape San Blas Florida	F.S.U.	Trace Gas Ozone Detector	Vertical Atmospheric Profiles Global Warming Data	Can Be Correlated With Satellite Data

SPACEPORT FLORIDA

SPACE RESEARCH EXPERIMENT PROGRAM

POTENTIAL AREAS OF INVESTIGATION

SCIENCE

METEOROLOGY

STRATOSPHERIC TRACE GAS MEASUREMENT (OZONE)

UPPER ATMOSPHERIC PROFILES

ASTRONOMY

SOLAR PHENOMENA

STAR SCINTILLATION

PHYSICS

MICROGRAVITY EFFECTS

COMMUNICATION SPECTRUM STUDIES

ENGINEERING

SENSOR DEVELOPMENT

SATELLITE SYSTEM QUALIFICATION

COMMUNICATION SYSTEM TESTING

SPACEPORT FLORIDA

SPACEPORT FLORIDA LABORATORIES

- PROCESSING FACILITY FOR SMALL UNIVERSITY, NASA CCDS, OR COMMERCIAL PAYLOADS (FOR SOUNDING ROCKETS, ORBITAL ELVs, AND SPACE SHUTTLES)
- TESTBED FOR ADVANCED LAUNCH CONTROL SYSTEMS
- LOCATED ADJACENT TO KENNEDY SPACE CENTER, AND MANAGED BY SPACEPORT AUTHORITY
- INCUBATOR CAPACITY FOR SMALL AND ENTREPRENEUTIAL FIRMS
- LABORATORY AND TEACHING FACILITY FOR SPACE SCIENCES AND ENGINEERING
- FULLY EQUIPPED FOR PAYLOAD OPERATIONS